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*Hemmert, D.; Mankowski, J.; Rasty, J.; Neuber, A.; Dickens, J.; Kristiansen, M.;*

Pulsed Power Conference, 2003. Digest of Technical Papers. PPC-2003. 14th IEEE International , Volume: 2 , 15-18 June 2003  
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*Bertolucci, E.; Chirco, P.; Conti, M.; Marcello, L.; Rossi, M.; Russo, P.;*

Nuclear Science, IEEE Transactions on , Volume: 45 , Issue: 3 , 1998

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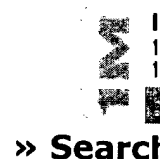
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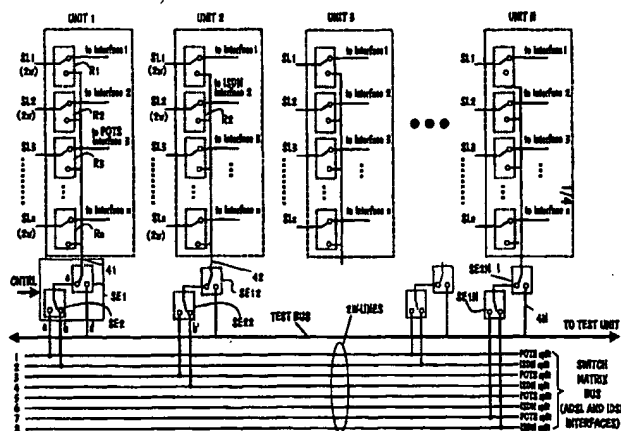
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b>  <b>H04M 3/42</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 99/66700</b>  <b>(43) International Publication Date:</b> 23 December 1999 (23.12.99)
<b>(21) International Application Number:</b> PCT/FI99/00496  <b>(22) International Filing Date:</b> 8 June 1999 (08.06.99)  <b>(30) Priority Data:</b> 09/098,565      17 June 1998 (17.06.98)      US  <b>(71) Applicant (for all designated States except US):</b> NOKIA NETWORKS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> KELLOCK, Hamish [AU/FI]; Länsilaaksonkuja 4, FIN-02300 Espoo (FI). NORRI, Timo [FI/FI]; Kiskontie 6 B 17, FIN-00280 Helsinki (FI). NYLUND, Arne [FI/FI]; Kaskimäki 6, FIN-02790 Espoo (FI).  <b>(74) Agent:</b> PATENT AGENCY COMPATENT LTD.; Pitkäsillanranta 3 B, FIN-00530 Helsinki (FI).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>

**(54) Title:** UPGRADING OF SUBSCRIBER CONNECTION**(57) Abstract**

Upgrading of a subscriber connection to another requires an upgrading work done by an electrician. According to the invention, the type of connection is upgraded by remote control. A switch matrix bus including several parallel lines (1-8) is placed in the access node. Connected fixedly in advance to the bus are interface units of an ADSL connection and, when desired, of an ISDN connection, however, in such a way that only one interface is connected actively to one bus line at a time. A controlled switch element (SE1, SE2) connects a line coming from a test relay (R3) located between the end of the subscriber line (e.g. SL3) and its interface to the switch matrix bus instead of the test bus. With a remote control signal supplied through network management a choice is made of which test relay connects the connected subscriber line to the controlled switch element. Since the line or wire couple of the switch matrix bus for its part is connected fixedly to the interface of the ISDN or ADSL subscriber connection, this means that the subscriber line can be connected by way of the switch matrix bus to the ISDN or ADSL interface instead of the original analog interface, or the subscriber line may be connected to the ADSL interface instead of the original ISDN interface. In this way, any subscriber line may be upgraded to a connection of another type by remote control.